

MPP Execution Engine

SMP Execution Engine

10

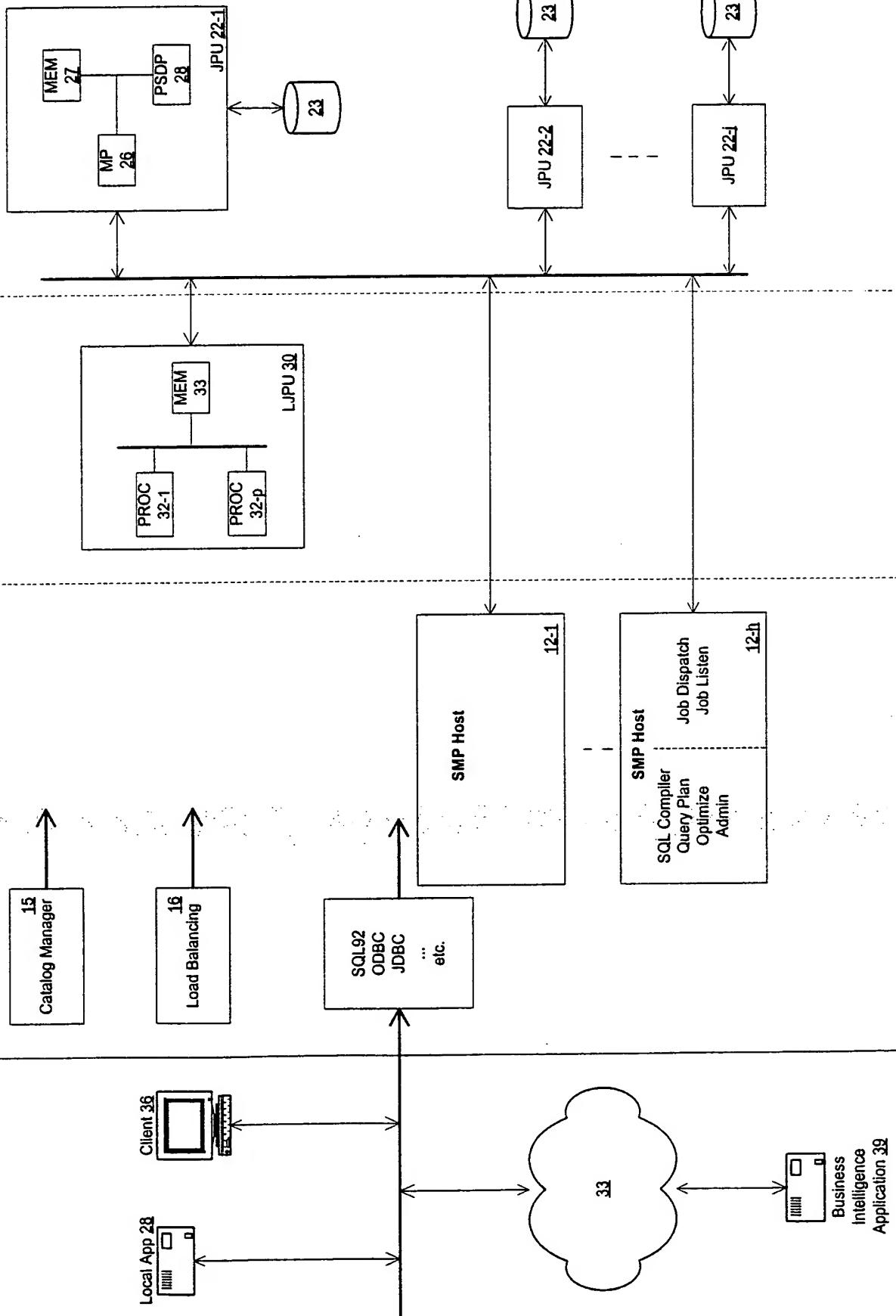


FIG. 1

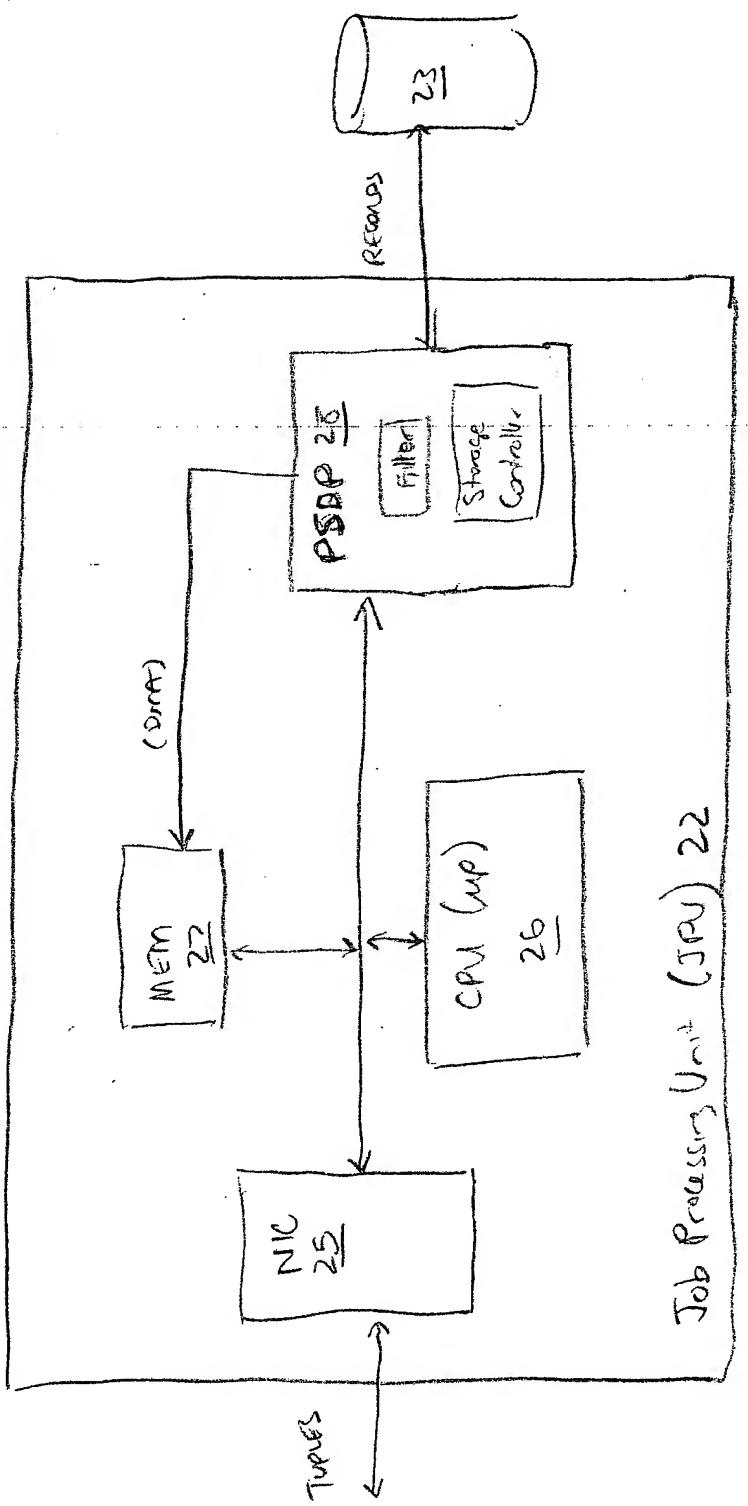


Fig. 2

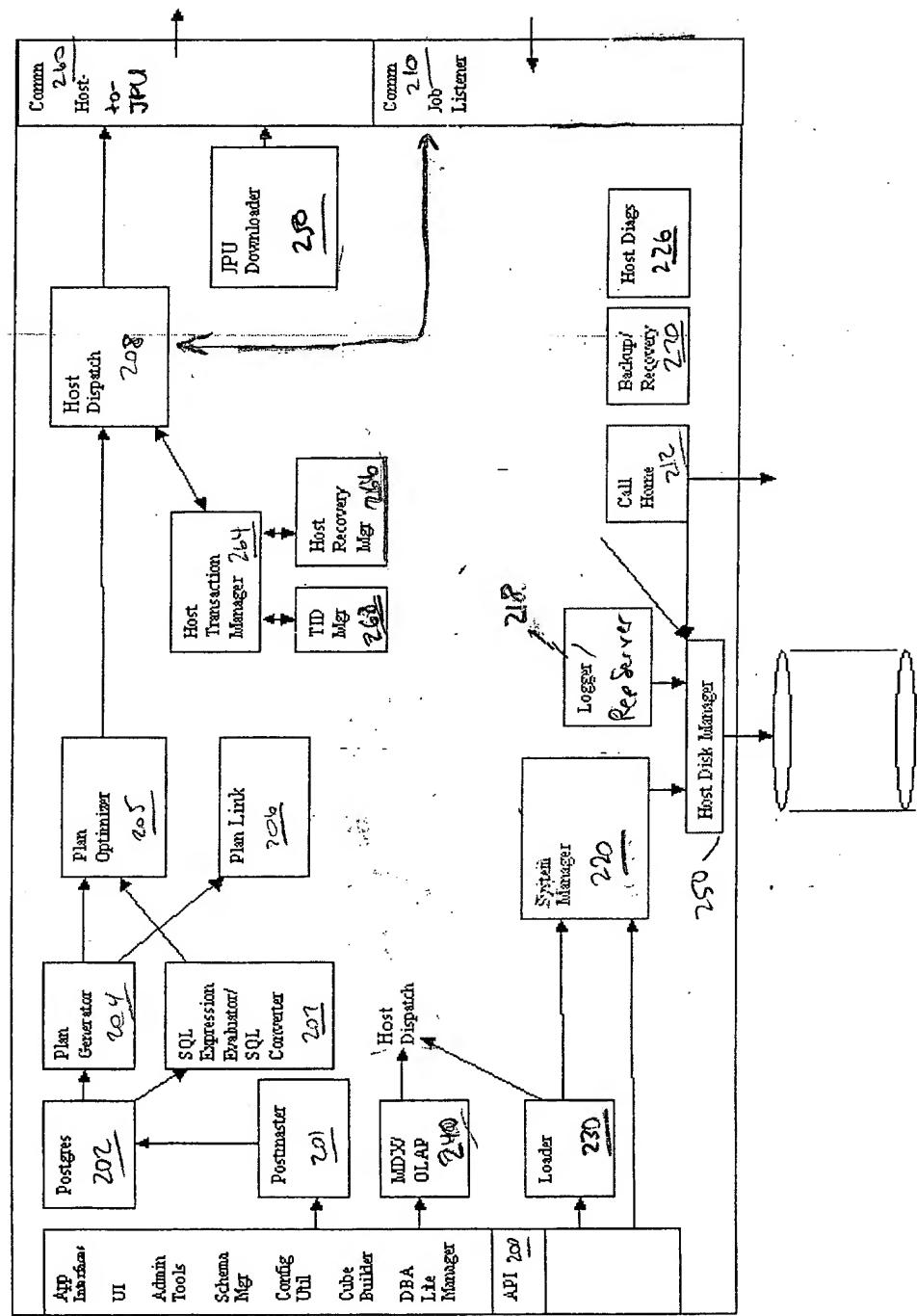


Fig. 3

JPU SOFTWARE COMPONENT DIAGRAM

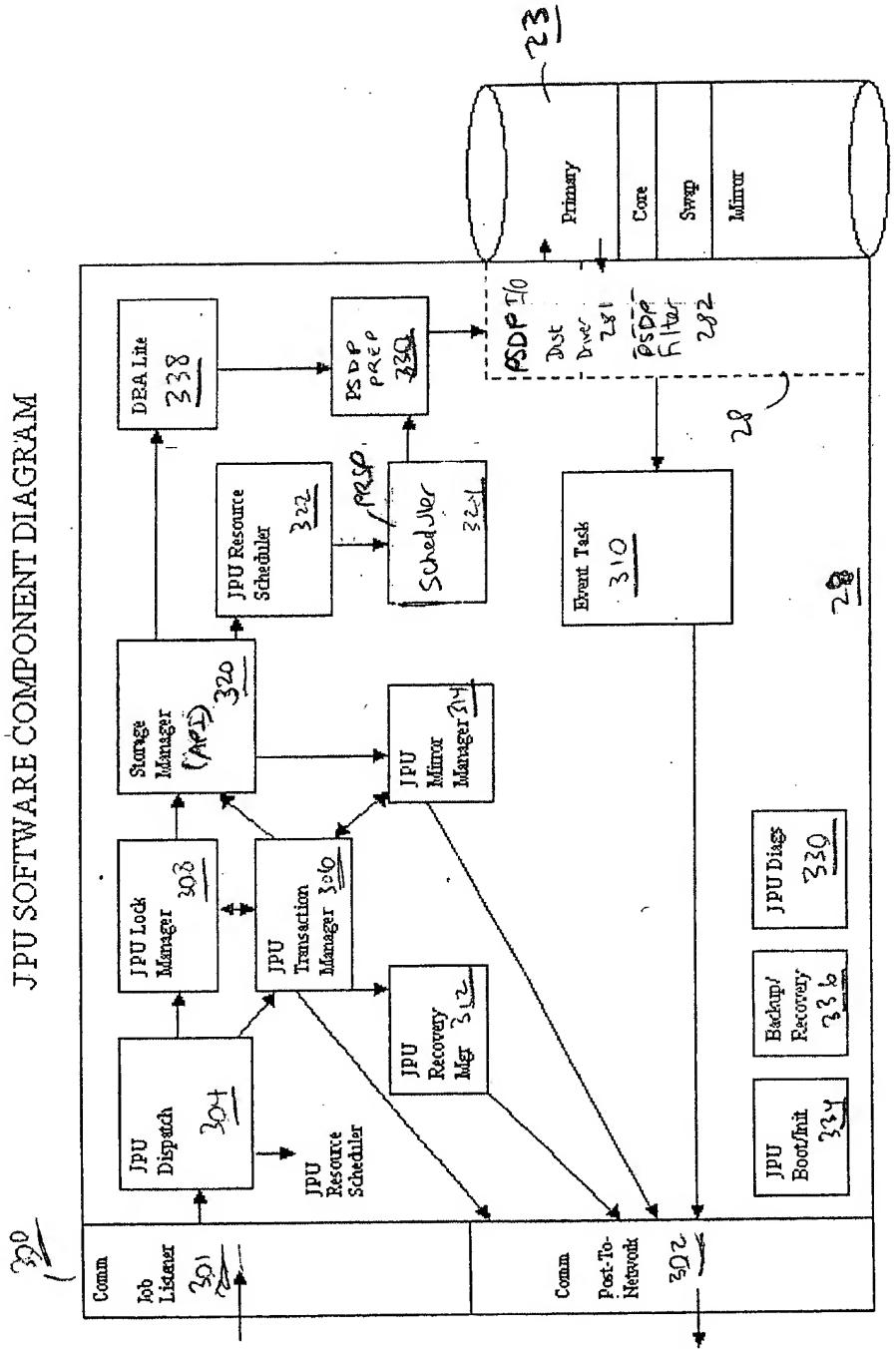


Fig. 4A

LJPU Software Diagram

350

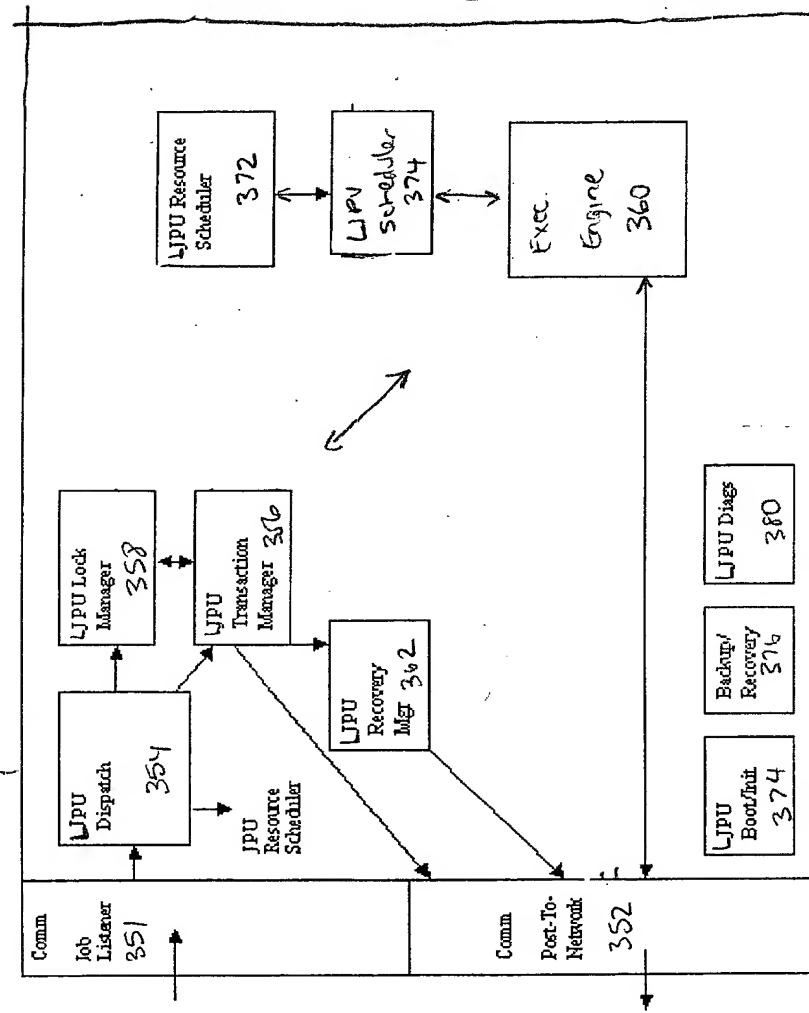


Fig. 4B

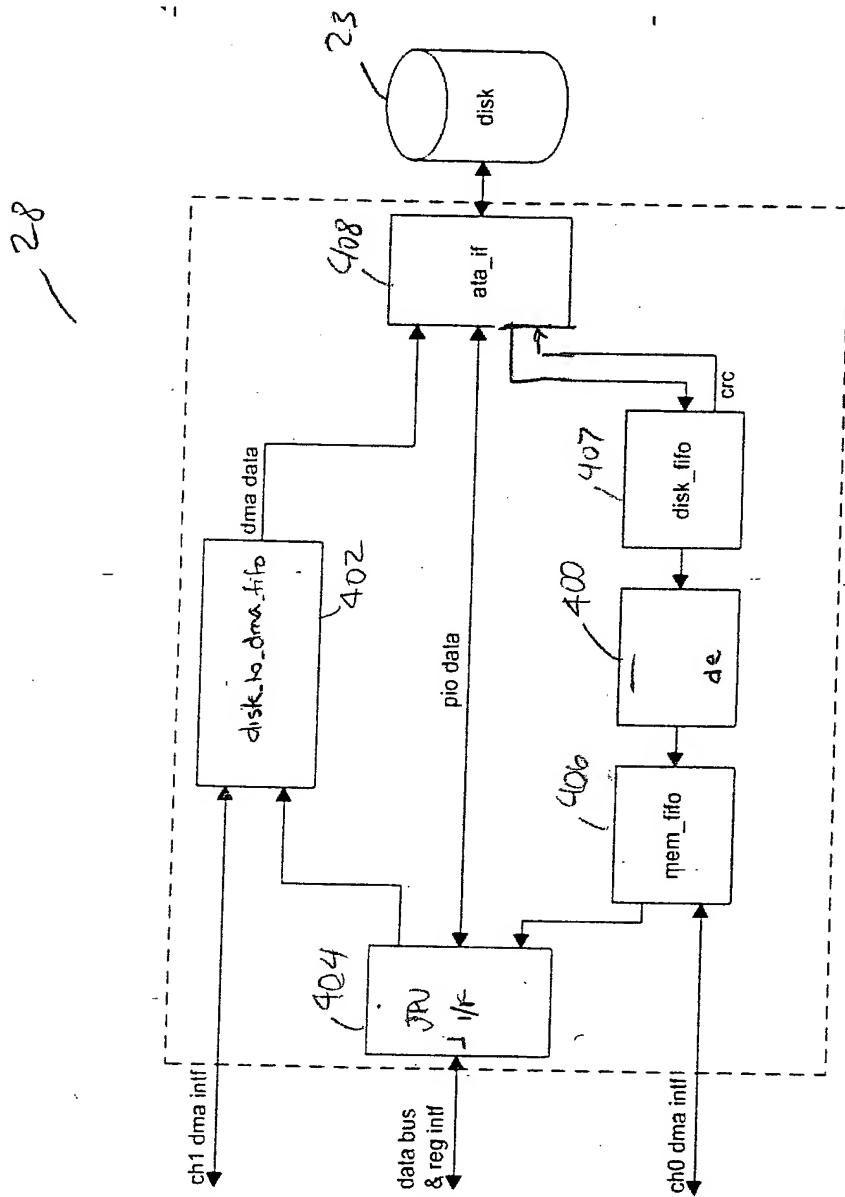


Fig. 5

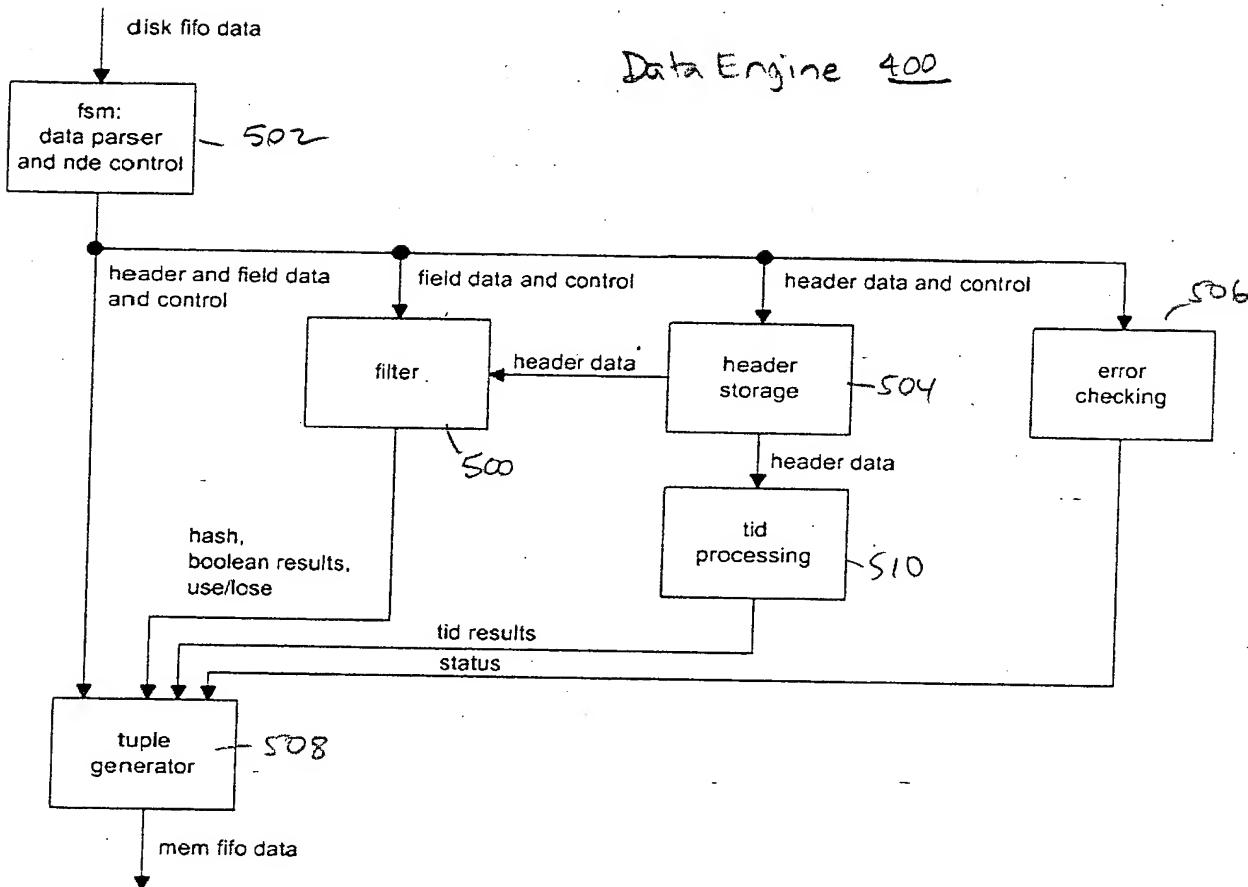


Fig. 6

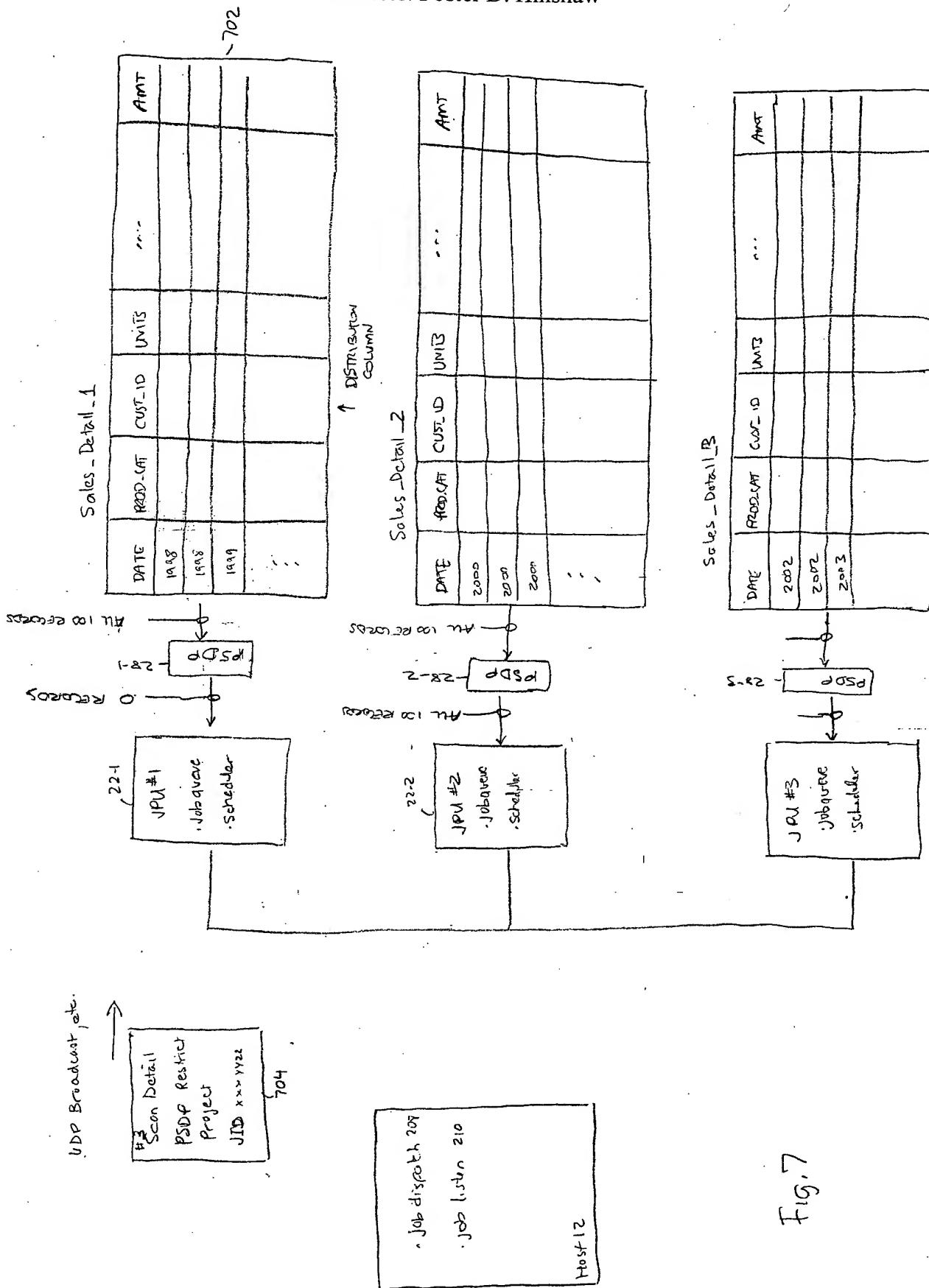
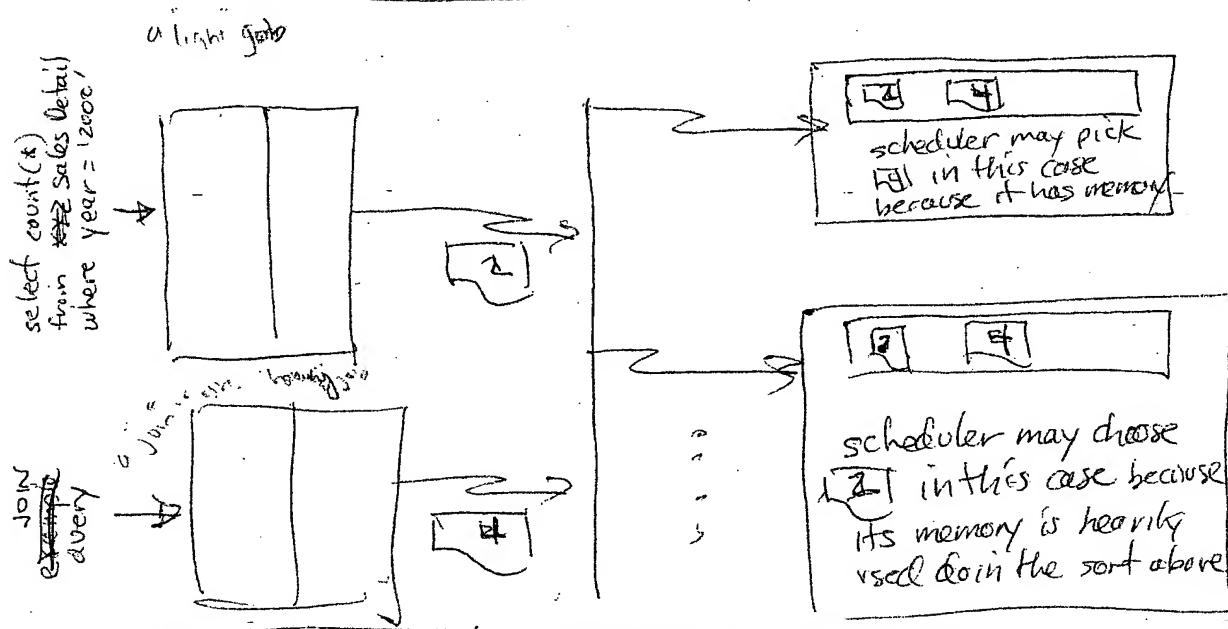
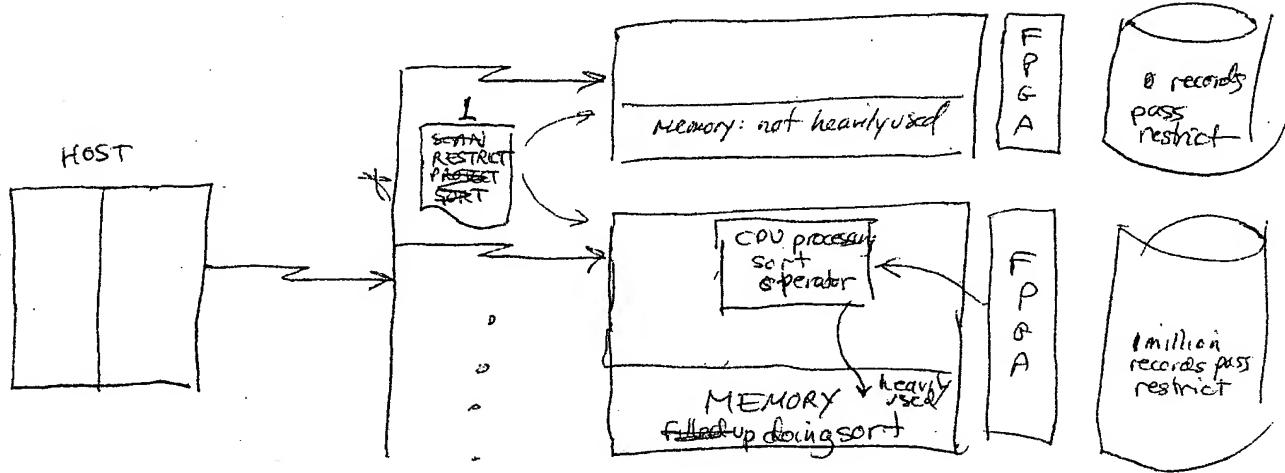


Fig. 7



- Job 1:** the predicate "year = '2000'" can be processed within the FPGA. Doing the count does not require continuing presence of each record. So it does not use much memory (~~Each record that passes the FPGA filter can be discarded once it is counted~~)
- Job 2:** (or 5 or 6) is potentially memory intensive as it is joining 2 streams, one of which must be memory resident

Fig. 8